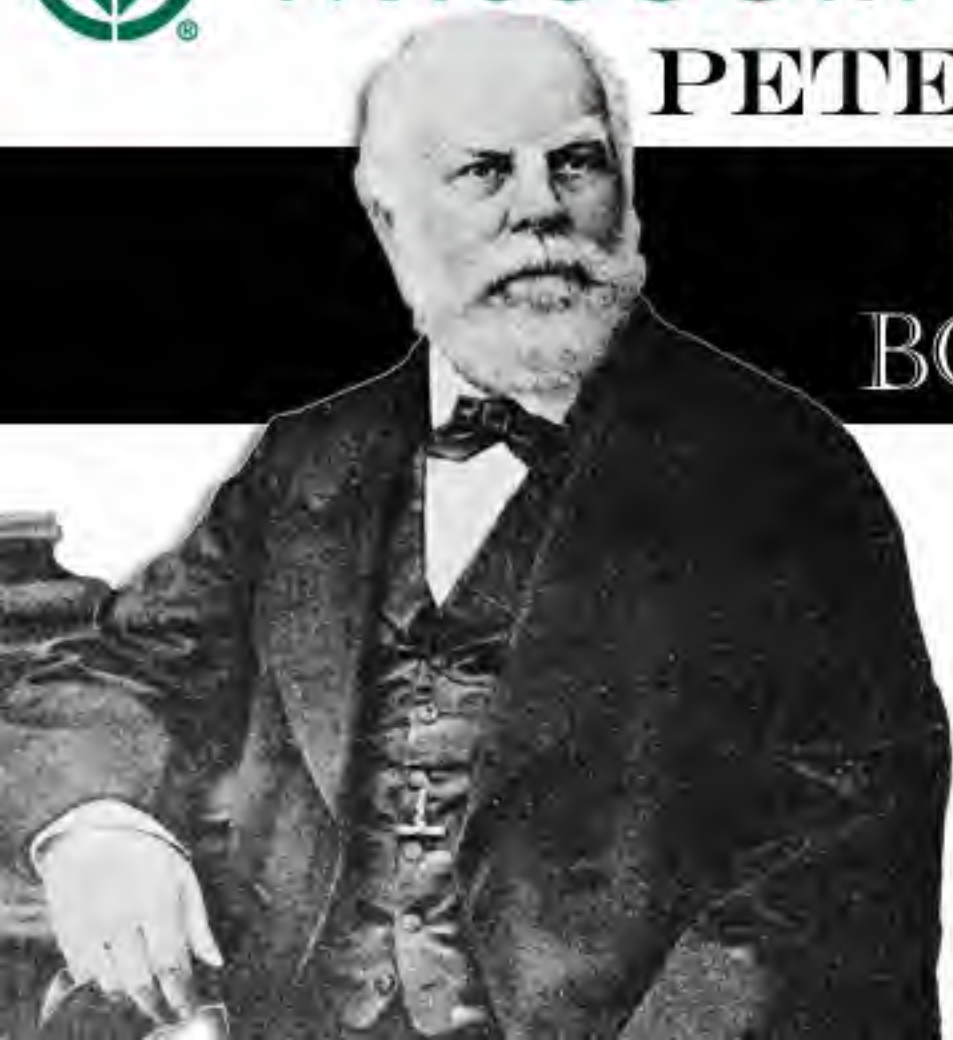


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3
Dimensions.—Length, 0.20 of an inch; width, 0.18.

The *Elæacrinus Kirkwoodensis* is nearly allied to *E. (Pentremites) melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

8

2. *J. Balli* *cus*

Erycinus

aphyllus

hexandrus

97-115

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1892



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Juncus Balticus

146 Philad.

Gray Engelmann.

Dalles Columbian		Lyall 1860 { Lyall }	
Saskatchewan		Bourgeau 1858	
Rocky Mts to Fort Collins		Lyall 1860	
Fidalgo Island		Lyall 1858 { Lyall }	
Slave Lake, Richardson 1826		Richardson	
Lake St. W & Carlton House		Richardson 1825	
Sackett's Harbor L. Ontario; Torrey		Gray ?	
Terra Nova		Pylae	
Innisk Mass	{ Baker Little Pickering Jordan }	Oakes	Oakes
Laurens Va ^{Denton}		Porter	Porter
Chicago		Vasey	Vasey
Santa Fe	Tender 860	Tender 860	Tender 860
Colorado	Hall 567	Hall 567	Hall 567
Wisconsin }	Hale		Hale
Minnesota }			Hale
Wilkes	Lapham		Lapham
Lake Superior	Smith		Ledy
Fort Union, Yellow			Hayden
Mauoaiter Tern			



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Sumner Baltimore

Aug 16 1865

St Croix, Wis

F. J. Hef

x60

marginata
correct

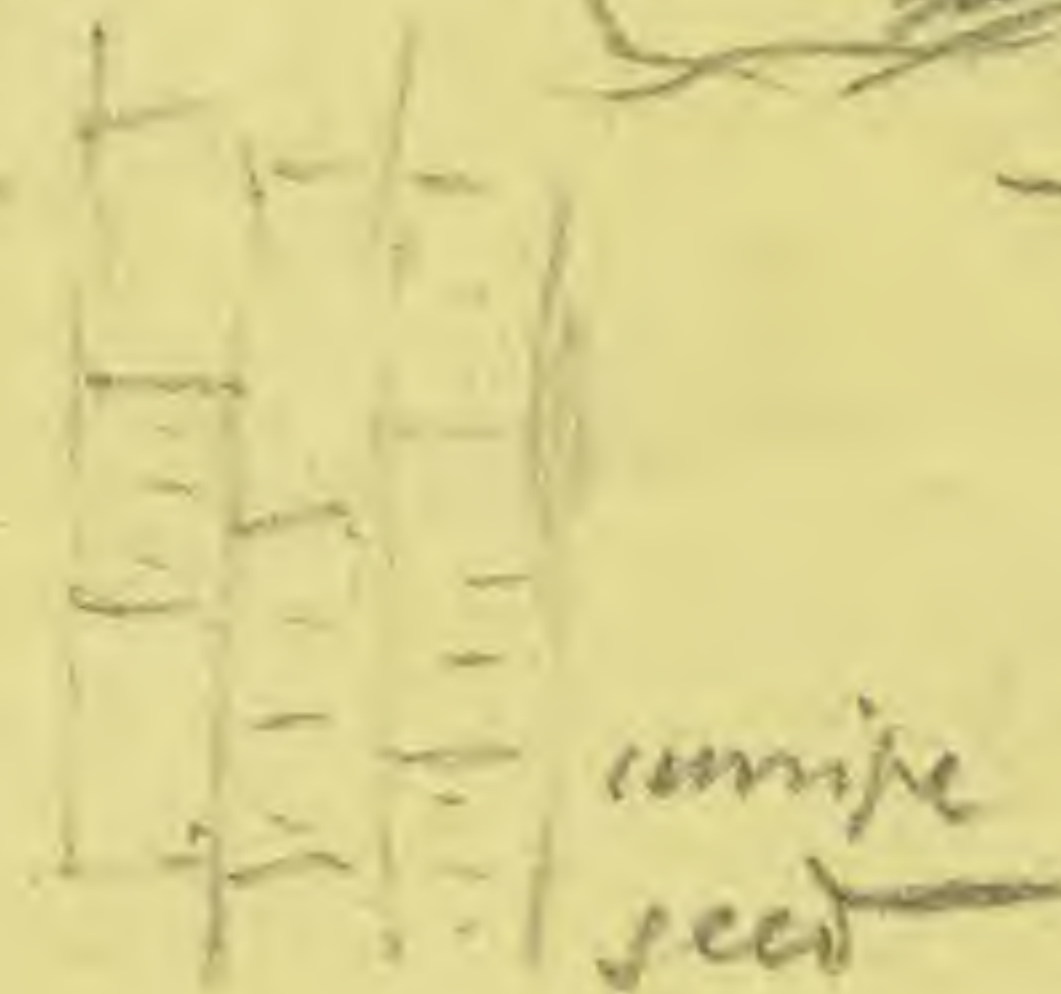


x10



bract hyaline

x150
Nov 19



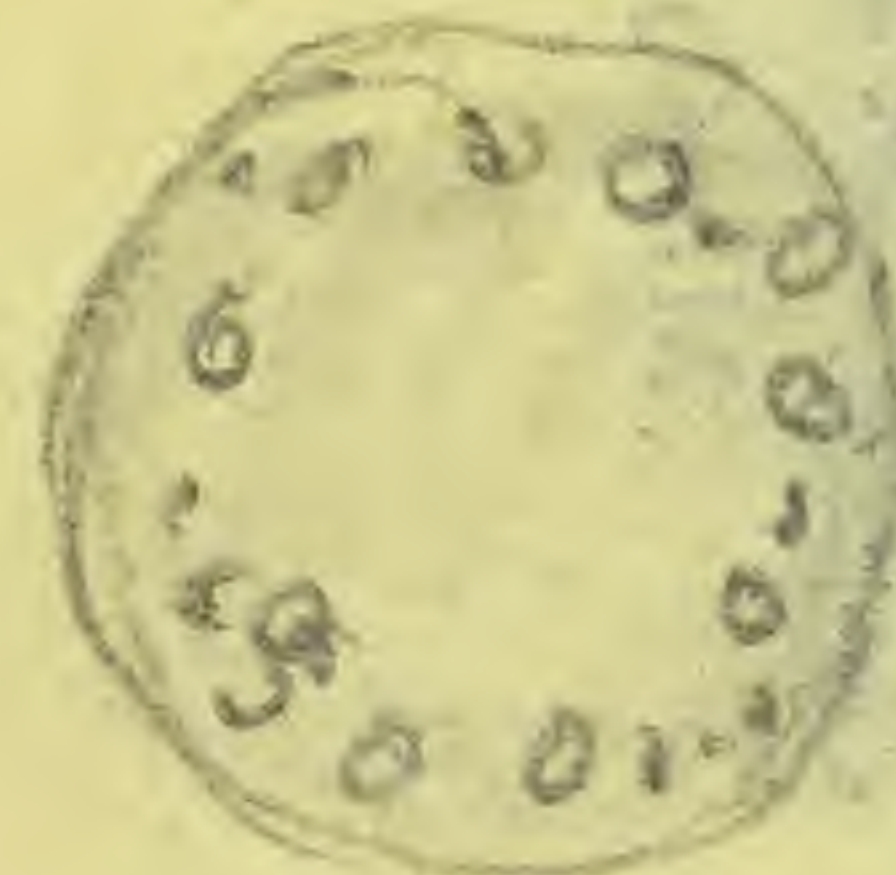
immature
seed

Sepalis annuatis
interioribus paulo

brevioribus



seed of stem
slightly compressed



out of
stem from
Atlantic
Coast

Lake Michigan
5

Nov 19 1865 x150



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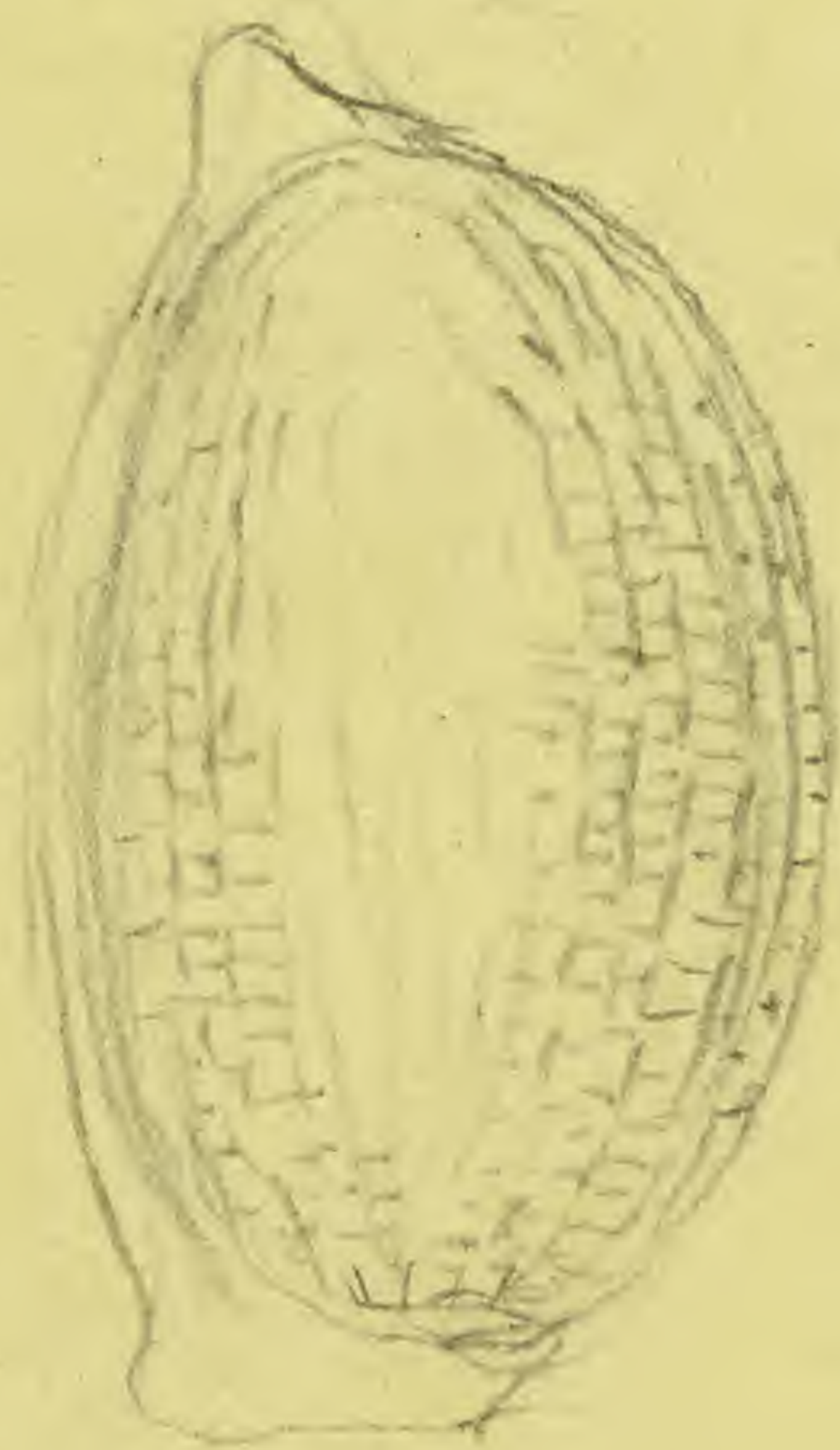
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Immun. Bullium

Aug. 16 1865

Bullia west 1829 Kleeberg

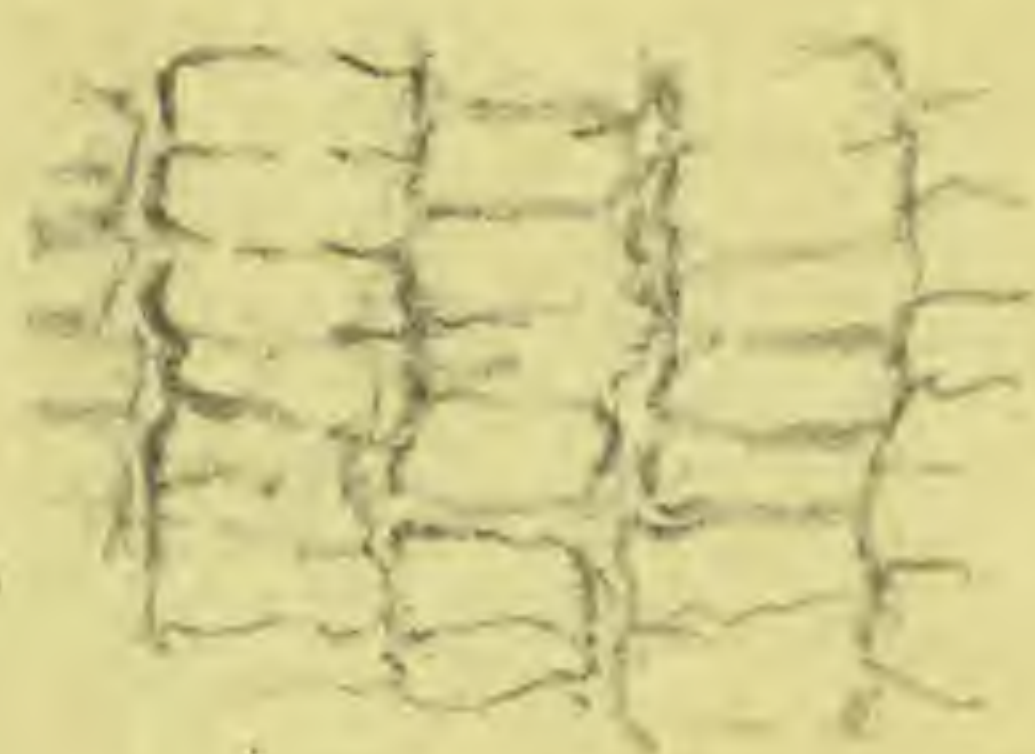
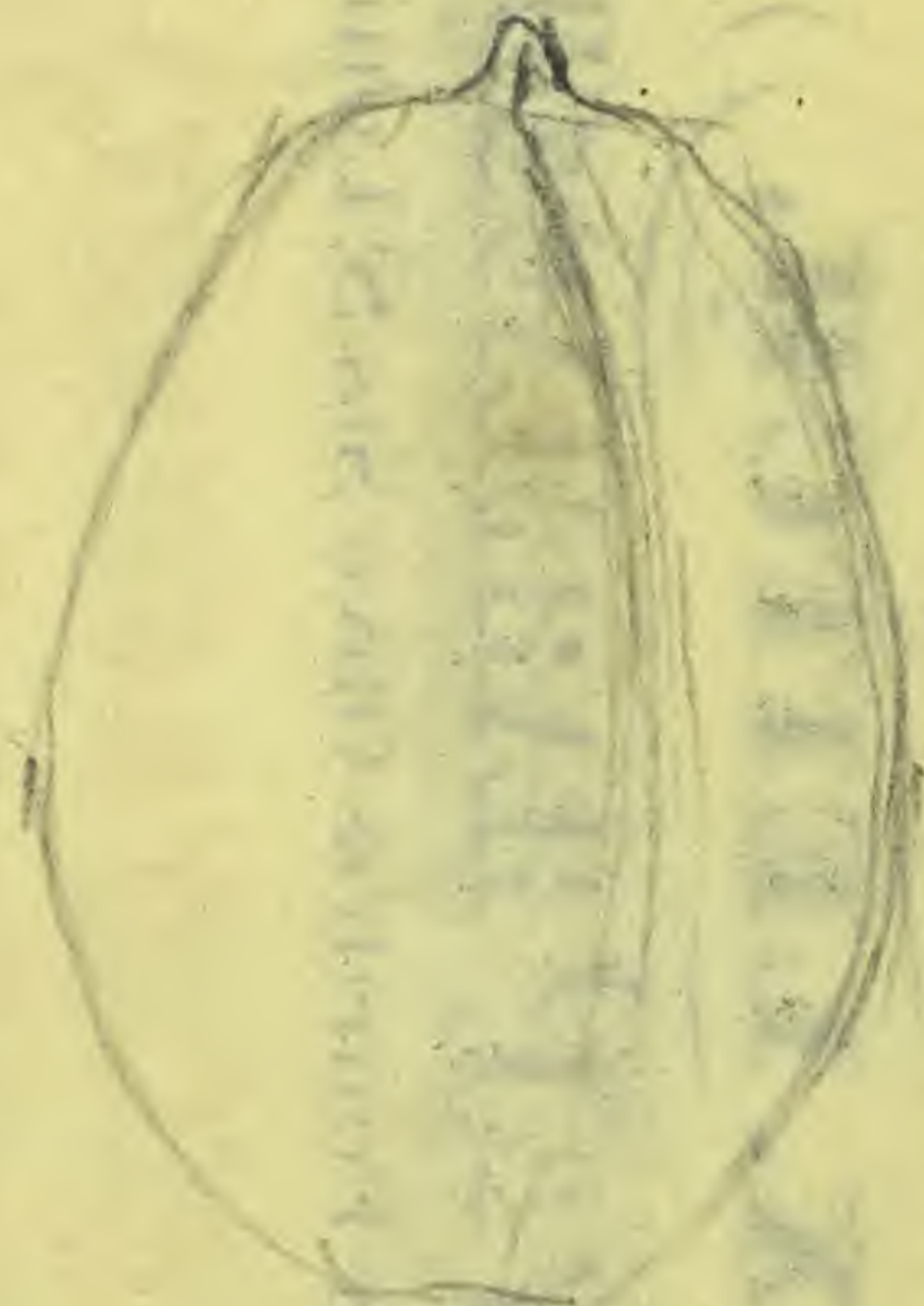
x60



Gravata ligula

inner sepals
scarcely shorter
slightly more obtuse

stem
thick
& broad



x150



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J. Ballou

Aug 16 1865

Usedown, on the Ballou, Adm.,
1864



x10



bark
hyaline



Seal of stem

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DEPOSITED IN THE HERBARIUM
OF THE MISSOURI BOTANICAL GARDEN
JAN 10 1885



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J. Bellidus

Nov 19 1865

St Croix

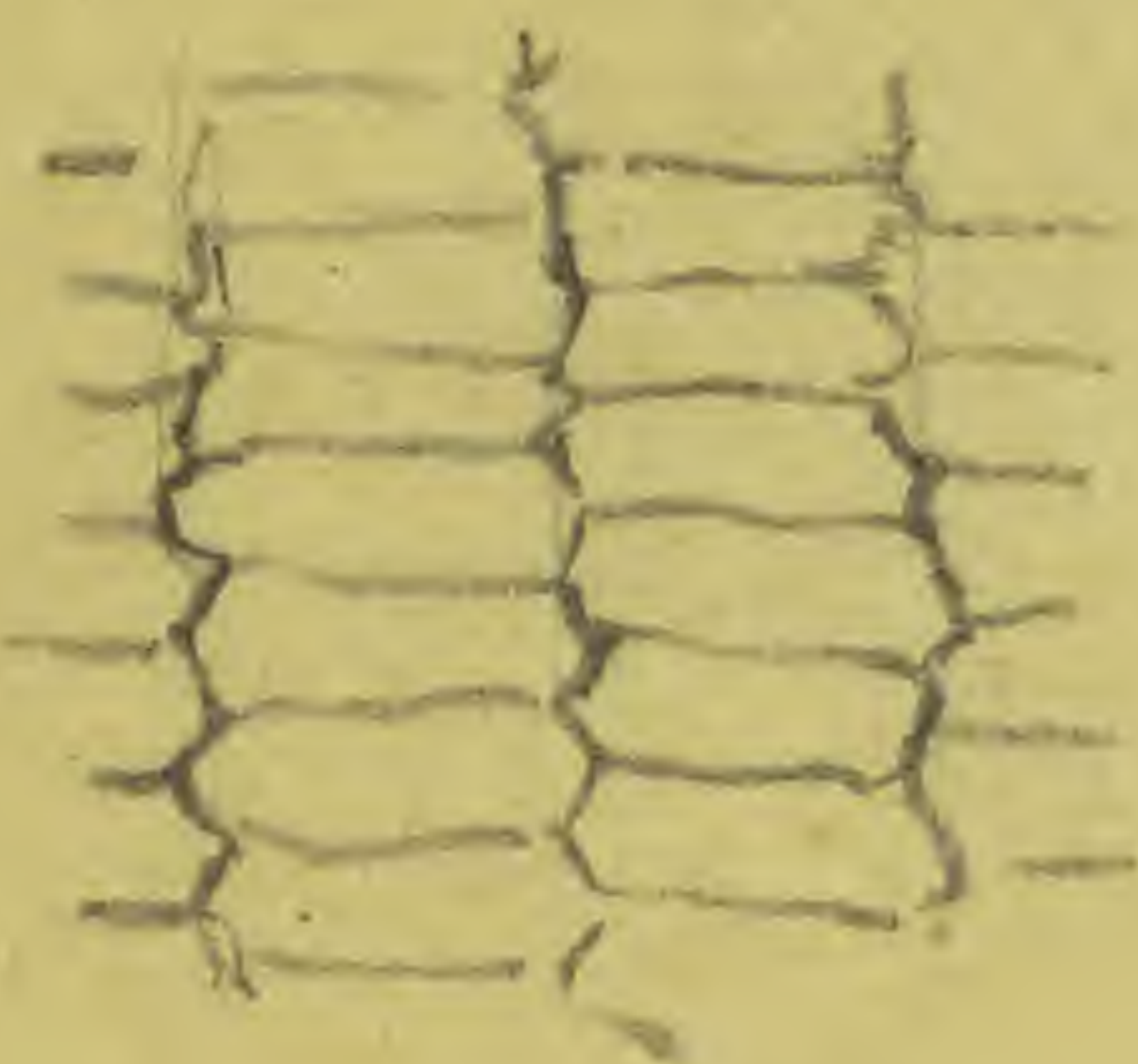
Hale

Wilson

x60



x150



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Junonia Bellina

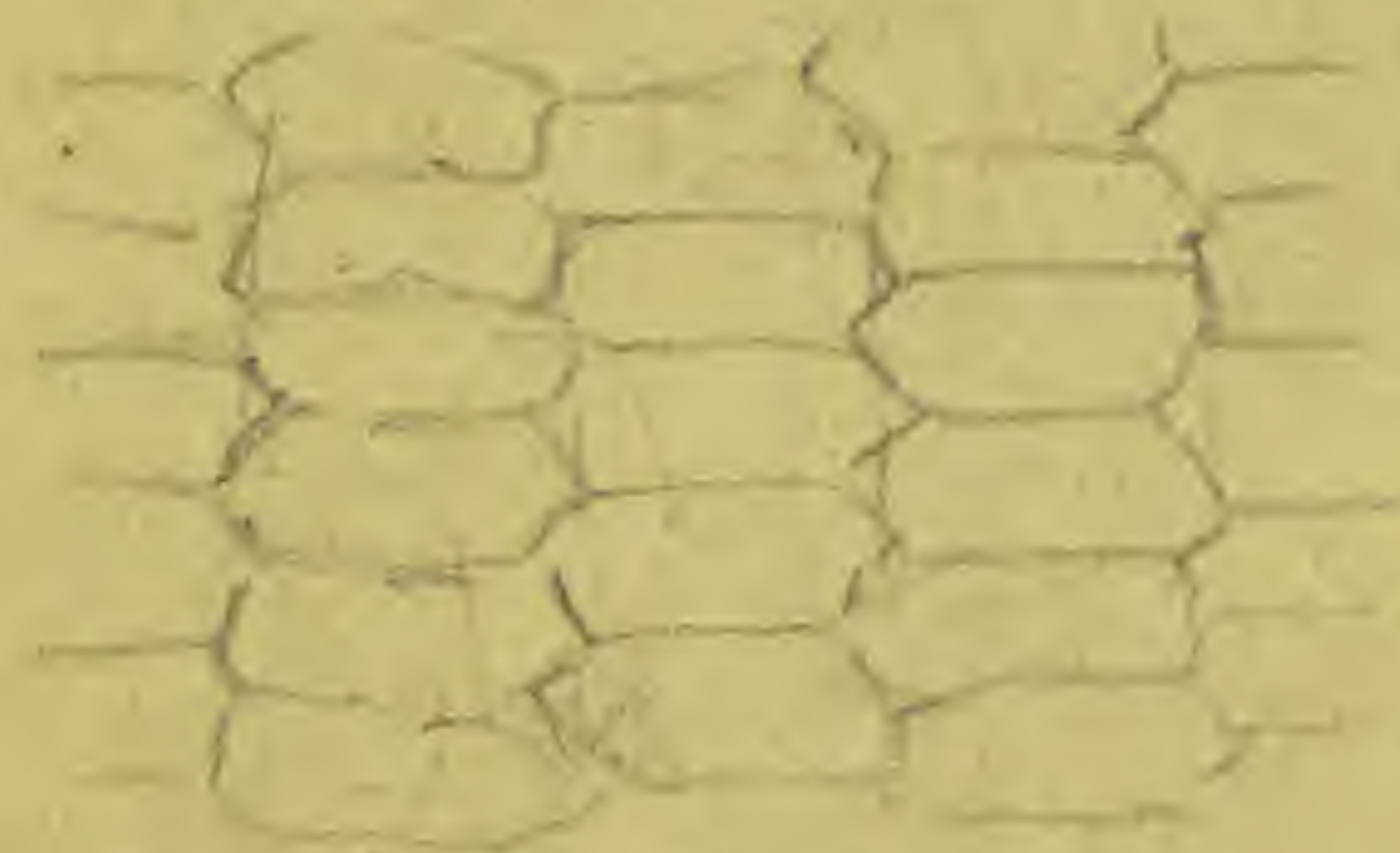
Nov 19 1865

Ipomoea

Oakes



X150



sepals equal

interior obtuse

exterior obtuse



X10

*very delicately
reticulated*

side of stem



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J. Balcan

Wright. N. Mex. 1920

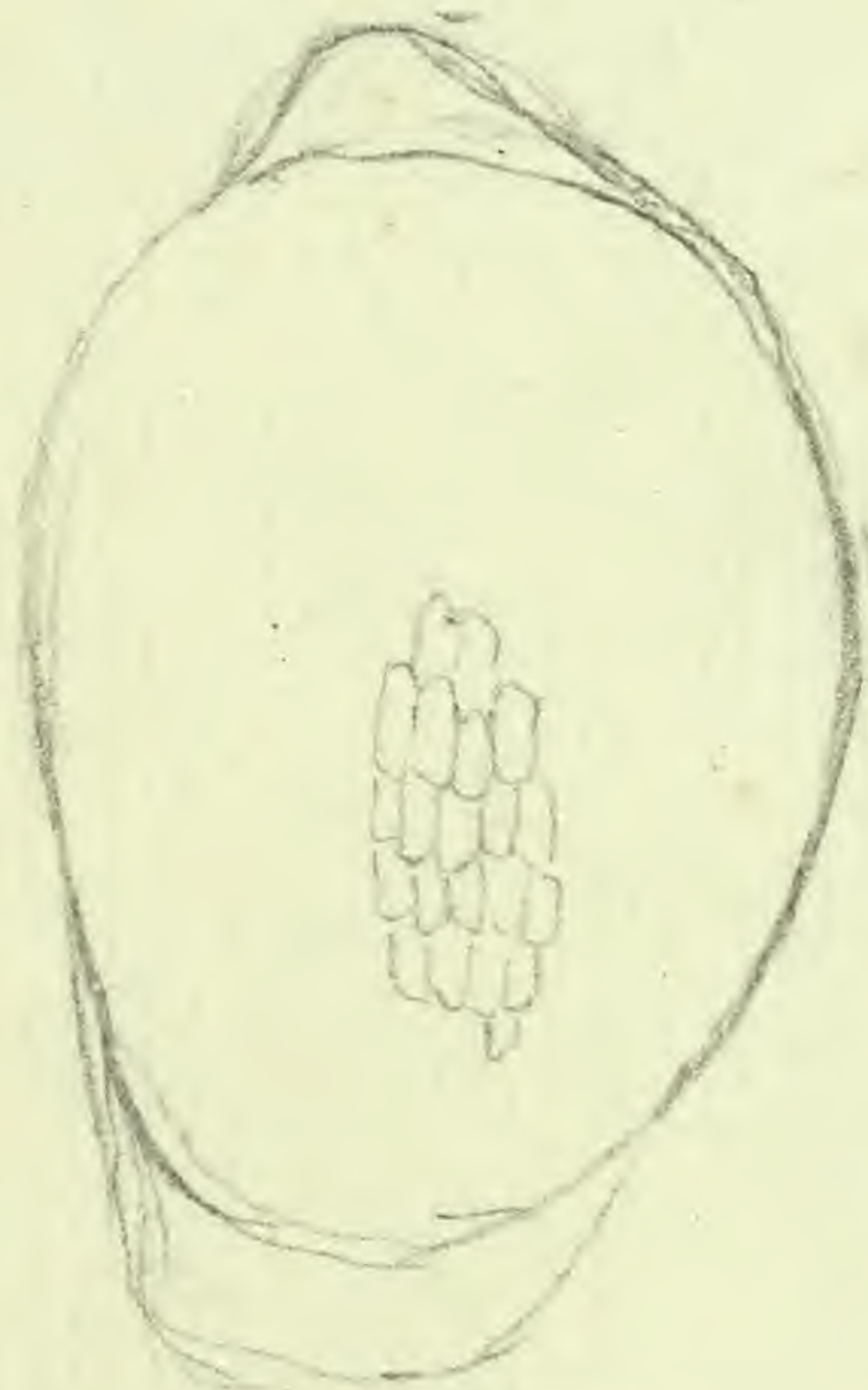
March 21 1866

seed similar to
Pacificus

size of flower & seed outline
seem to point to
J. Pacificus — but
capsule to *Bellidifera*



reticulation
too large



reticulation
very distinct,

no cross striulation

Soaking makes it more plain



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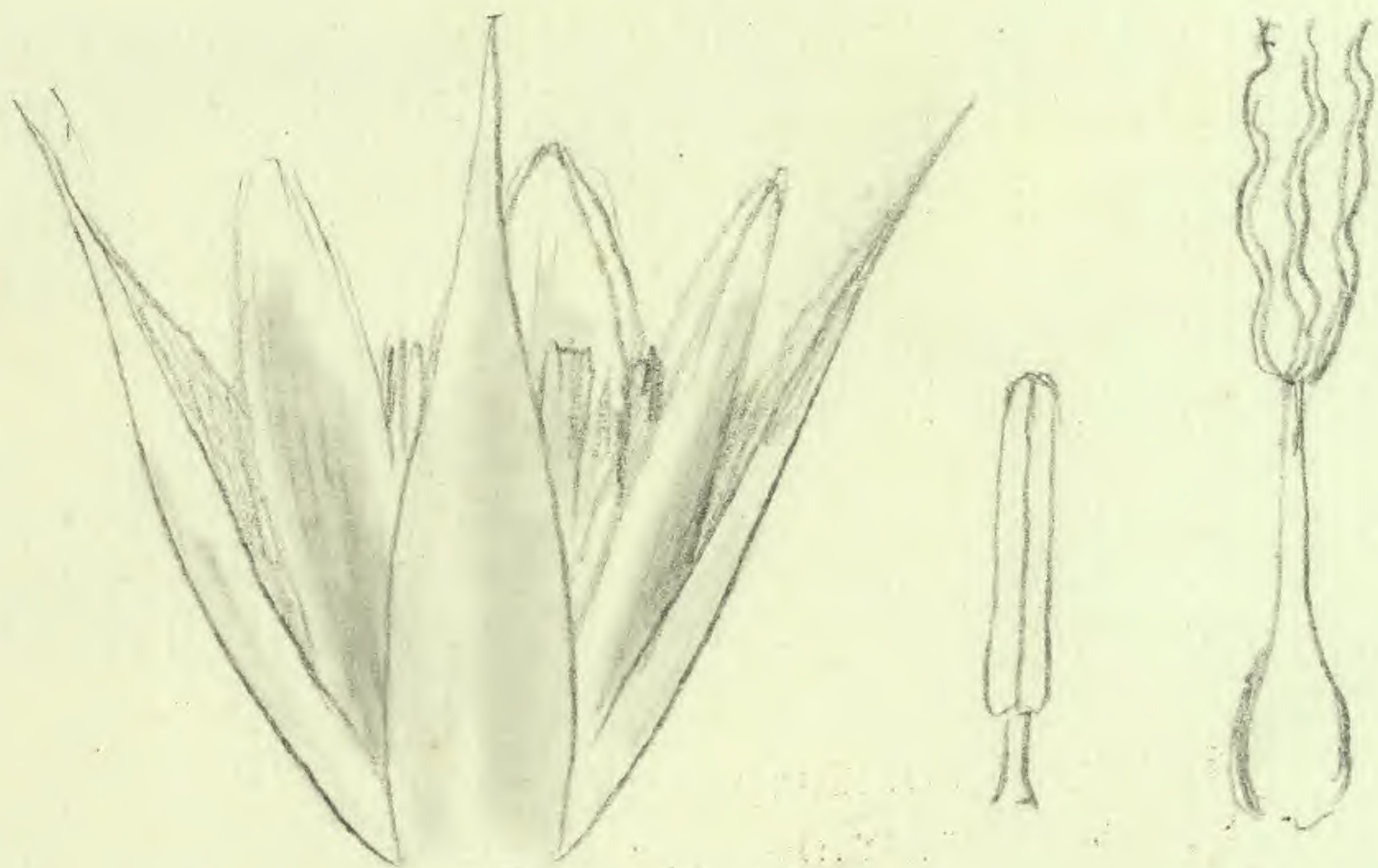


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" *J. Balhous* p "

March 21 1866

Dalles of the Clumbi, & Lyall 1860



Lyall 1858
Fidalgo Island
New Coast id
exactly the same
flowers same size
but sepals broader,
exterior with broader
margin

" ext sepals very acute with narrow margin
interior much shorter with very broad margin
deep brown in middle white



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4866

Junonia *Balthus*
Yosemite Valley

Aug 6 1866
July 4 1866 Bolander

x60



7-8 ribs very
delicate



cut of stem x10



x150



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6030

J. Bor Am N25

Hb. norm. 5

J. Balthus

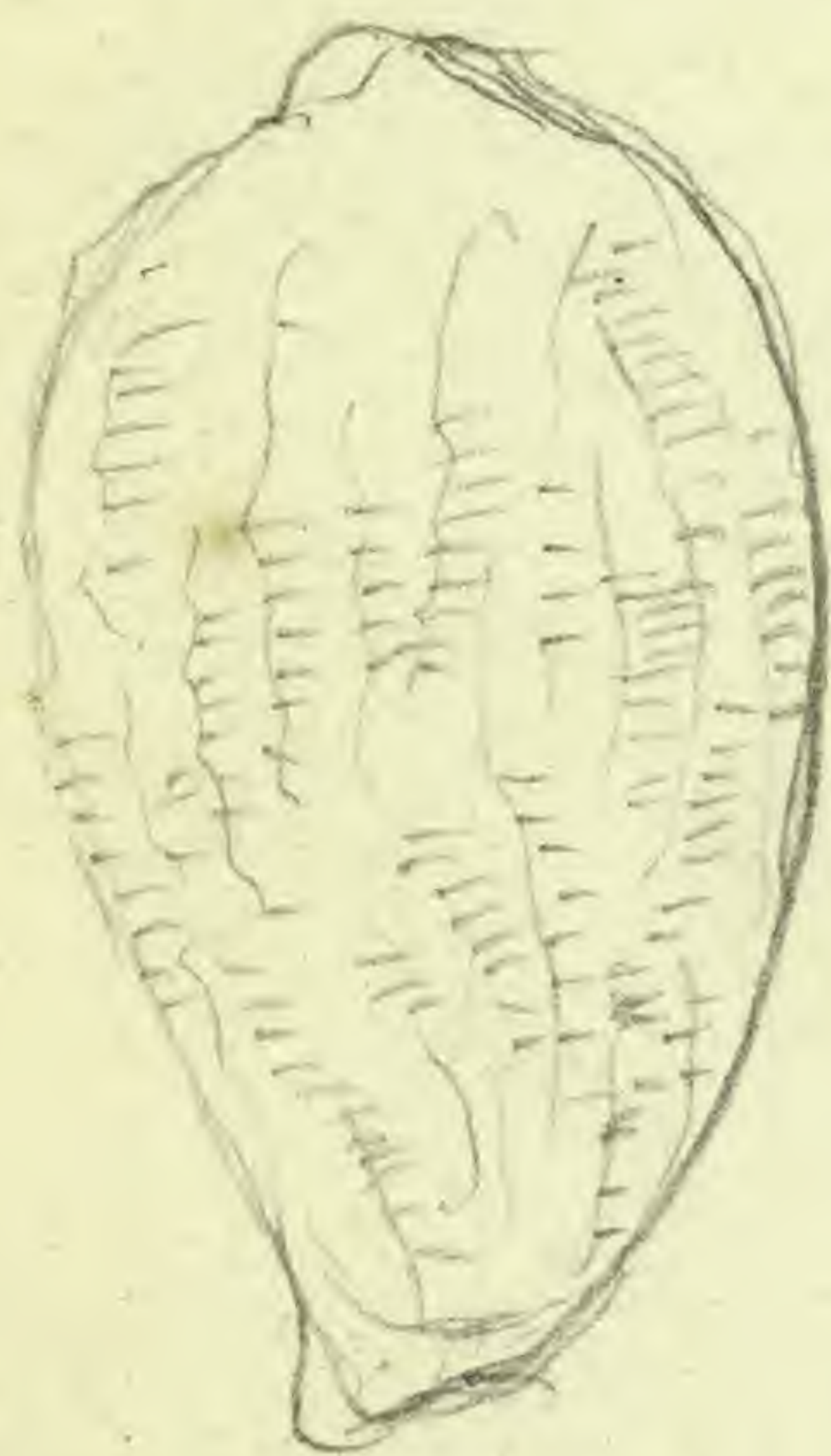
Borders of Mon Lake common

Sandy soil

H. Solan

Aug 6 1869

x60



mostly
lincolate

seeds rarely
with network
on back and

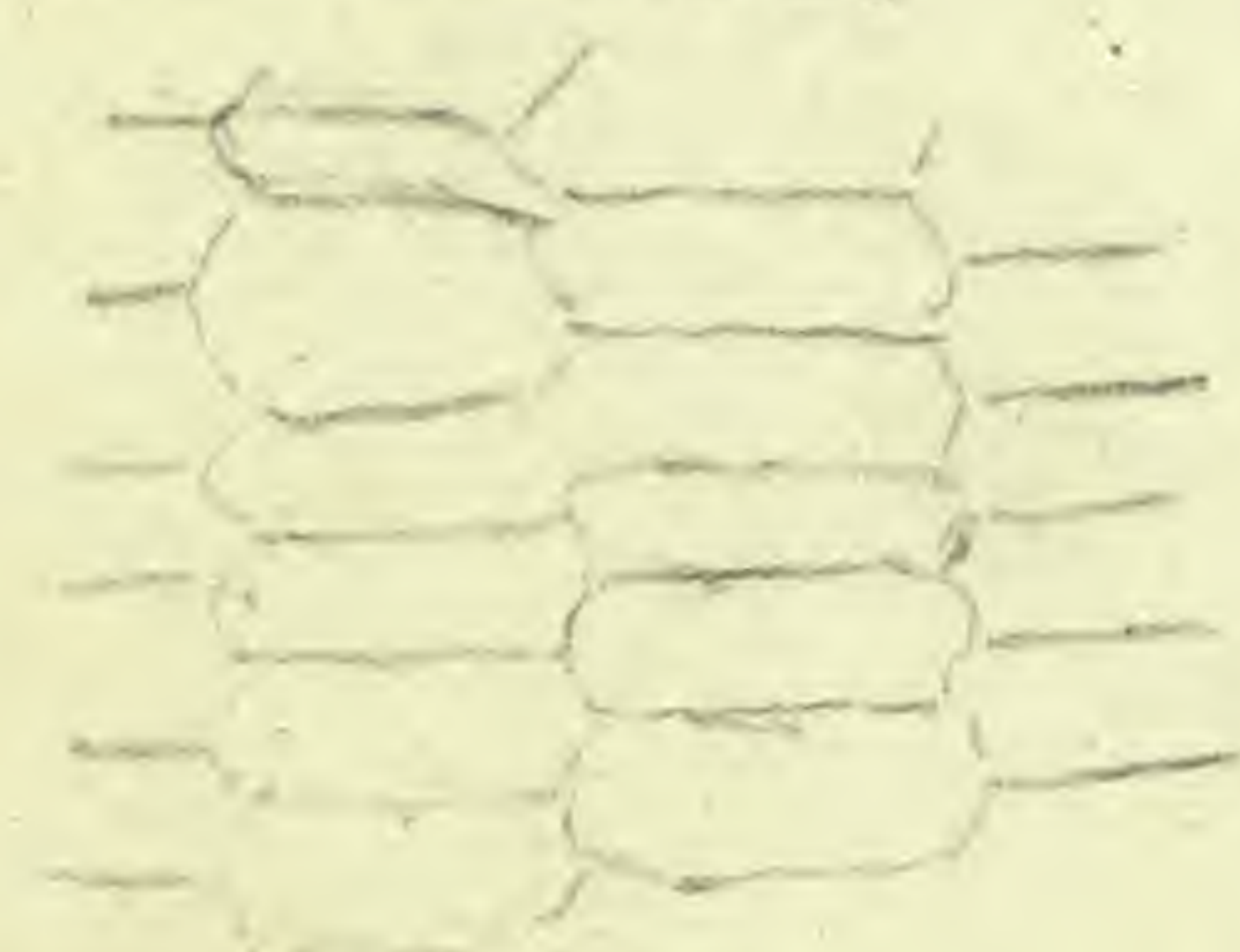
dark center

green inside

lincolate annulation

16-17 ribs above

ridges below



x150



seed of stem



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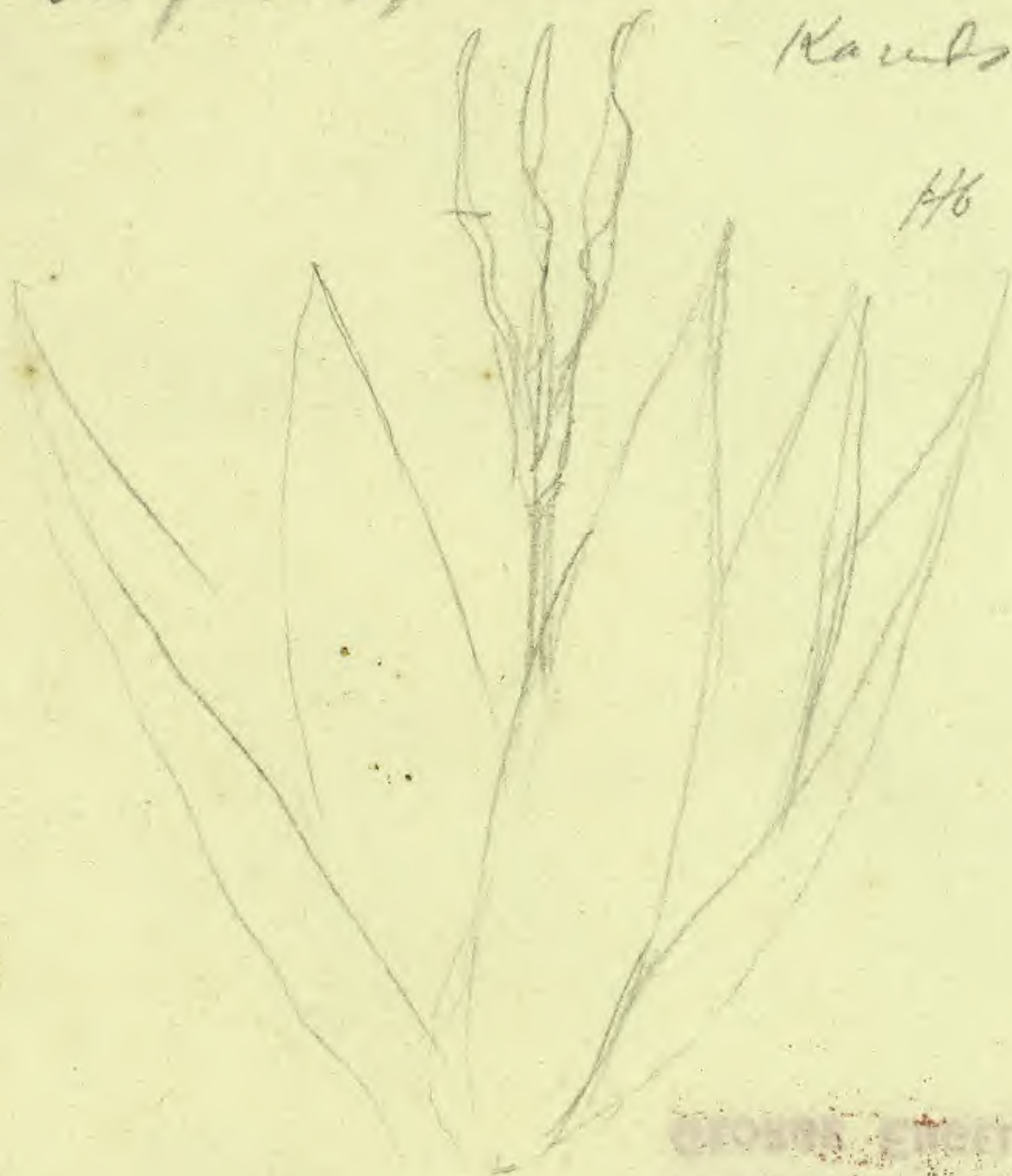
J. Bellard ? ?

Febr 25 1868

triflorus; like Dracunculus, except flowers

Kautschuk

Hb Hort Petrop. 32



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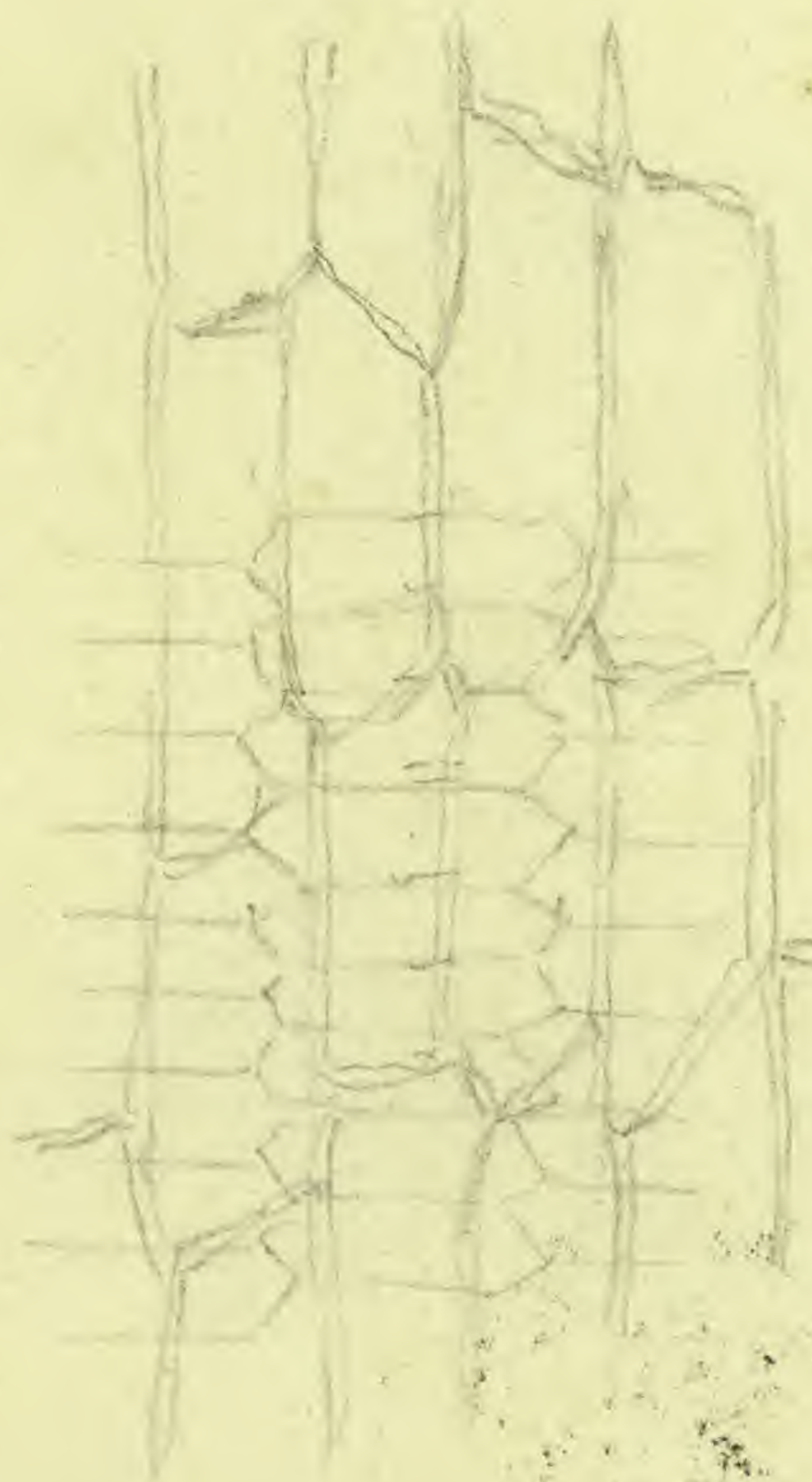
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J. calliurus

Febr 17 1868

Prussia, Kleberg 1826

280



testa
epidermis
rather easily
removed, consisting
of two layers of cells,
just like the Paripif.

J. Lescurii, outer, larger, of the white or light
brown translucent, as large as the
inner translucent, impressed on the seed.



appearance of seed
after removal of
testa

not quite ripe?



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Juncus compressus B. Haeckel
Cap. Espenberg, Chamisso

Febr 17 1868

x 280



x 150



single layer of cells of
epidermis of testa,
which with some difficulty
can be removed

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OF THE HERBARIUM OF THE UNIVERSITY OF CALIFORNIA



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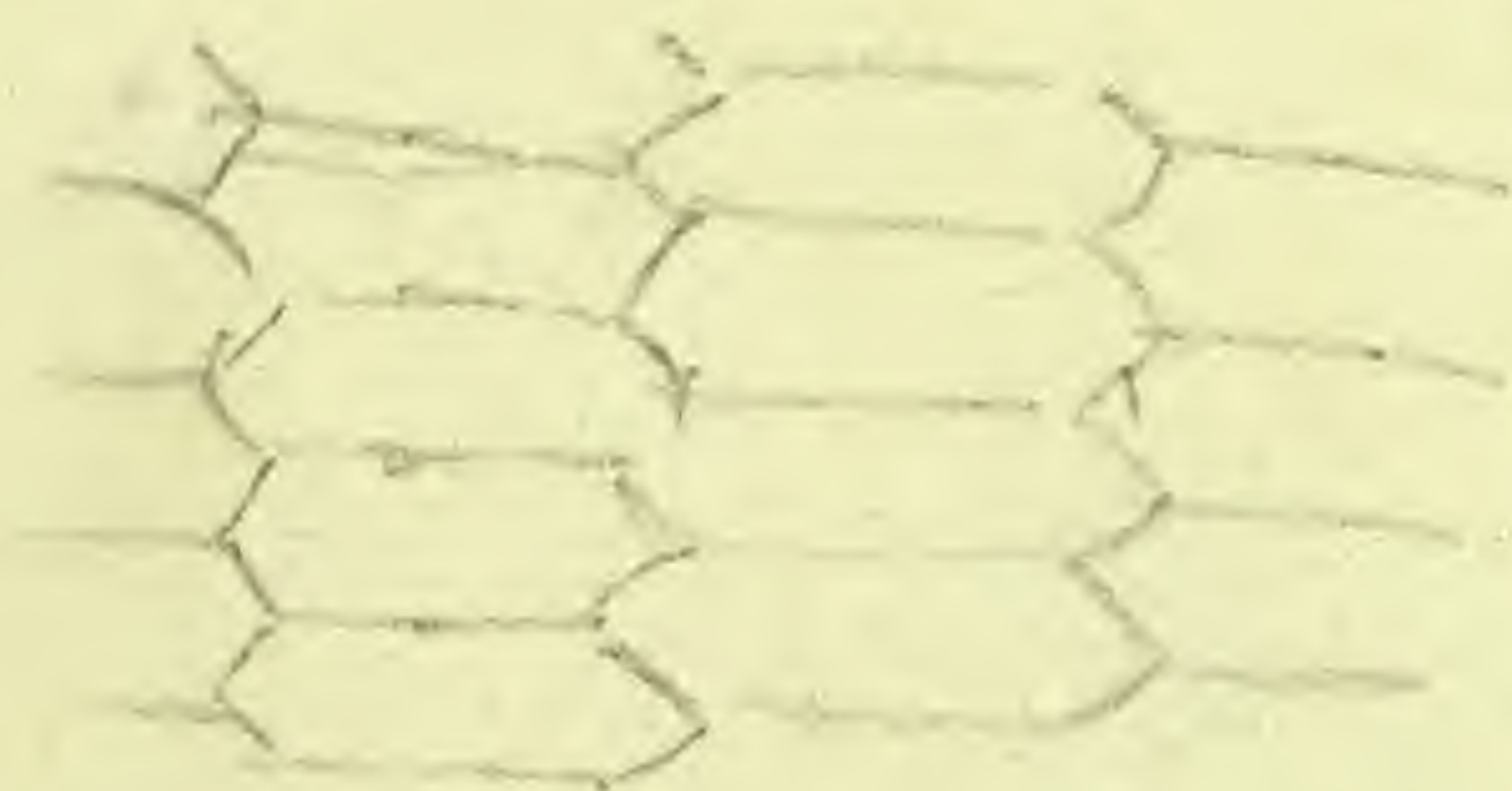
J. B. Albion

Feb 17 1868

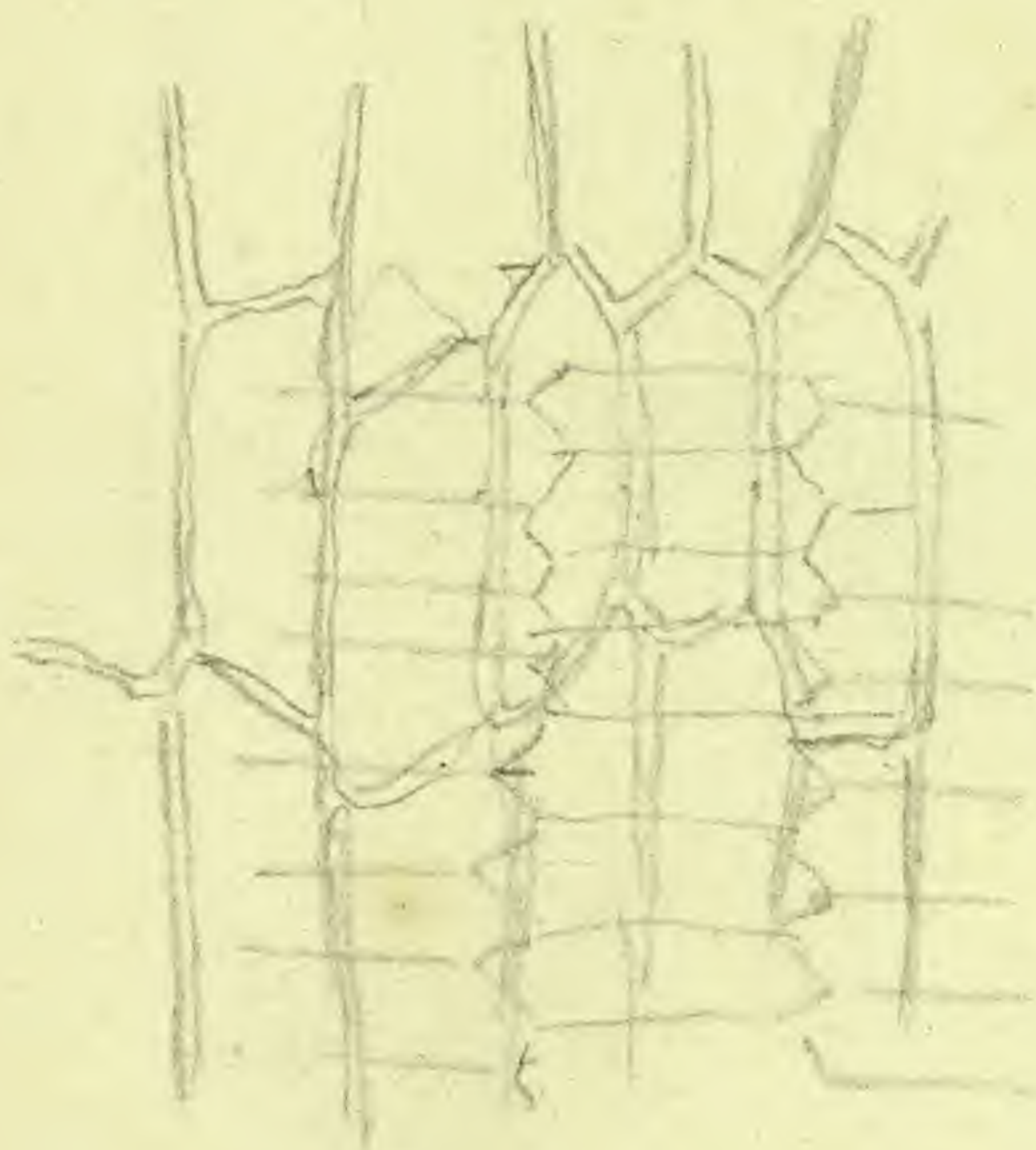
Belleville Swamp, Pa.

Porter

x 150



appearance of seed
after removal of testa



a little too large

testa 2 layers

x 150 of cells

outer elongated layers



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1438 *Juncus Bullianus*

Oct 17 1882

Bear Valley, San Bernardino Mts.

Perish Aug 1882

X10



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Junius Haenkei E. Meyer Synops. Icon. (1822) 10 №1

J. compressus var *J. anthela subsimplis* E. Meyer

E. Linnaea III. 368 Synops. Lenzl. (1823) p. 27

E. Reliqua Haenkeana ¹⁸²⁸ T. 141. (1827)

J. Bullianus ? La Harpe Icon. 26. (1825)

J. Bullianus Kunth En. 3. 317 (1841)

J. Bullianus E. Meyer - Ledeb. Flor. Ross. #222 (1853)



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Junon, Balticus Caroli, fortis, dms

Genuinus

sepala extensa aortia paulo longiora, capsula
late ovata obtusa mucronulata peraequantia
anthera brevior filamento duplo longior

Americanus ~~lanceolatus~~

sepala eadem, capsula aequiore longior mucronata
peraequantia anthera longior, filamento quadruplo longior

Americanus montanus ad glaucum accedens ^{sem. minoribus}

florae minores sepala peraequantia, capsula
rostrata mucronata, anthera longior, filamento quadruplo
longior.

a sepala acuta capsula aequantia ^{sem.}

b sepala obtusiora capsula brevior ^{mucronata}

Pacificus ^{superior} Caroli, fortis, compositibilis

florae majores sepala extensa paulo longiora aortia

Capsula ovata breviter mucronulata aequantia
anthera elongata filamento plus quam quadruplo longior
semine magna ovata obtusa tenuiter reticulata

p. fere levior



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Junonia Pariphius Lesueur^m

Hb. Philad. Gray Lagerl.

California

Harkness 2018 (Harkness)

2 New Mex. 1851 6. 1920

Wright 1920

Wright
1920

? - - - - - Wright 1921

" 1921

Calif.

(Chamisso)

San Francisco

Bolander



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